Defense Standardization Program Office

Program Manager's Tool

(Information Briefing)

Presented to Parts Standardization & Management Committee
October 29, 2003

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Briefing Outline

- Why a Program Manager's Tool?
- Joint Material Standards Roadmap (JMSR)
- JMSR Criteria
- Description of PMT
- Program Managers' Tool (PMT)
- Selecting Standards
- Linking US & NATO
- PMT Demo

Why a Program Manager's Tool?

- Joint Vision 2020 emphasizes interoperability and joint & coalition warfighting
  - Joint Technical Architecture mandates use of selected standards to achieve IT interoperability
  - No comparable guide for materiel interoperability
- Linkage between International Standardization Agreements (ISAs) and DoD implementing specifications and standards not evident
- During MilSpec Reform, implementing documents were sometimes cancelled.

Joint Material Standards Roadmap (JMSR)

- DoDD 5000.1, 12 May 2003E1.13. Interoperability. Systems, units, and forces shall be able to provide and accept data, information, materiel, and services to and from other systems, units, and forces and shall effectively operate with other U.S. Forces and coalition partners.

- USD (AT&L)
  - JMSR establish filter elements for standards to support JV 2020, QDR, and Future Logistics Enterprise (FLE).
  - Resultant standards included in Program Manager's Tool (PMT).

JMSR Criteria
(A Standard Must Meet at Least One)

- Supports DoD operational requirements for achieving capability to accomplish approved military objectives, missions, or tasks
- Ensures interoperability for a “family of systems,” between systems, subsystems, or materiel within a Service, among Services, or with military treaty organization allies
- Needed to meet goals of the FLE for enhanced readiness, reduced logistics footprint, complete supply chain visibility, improved transportation, or reduced and improved maintenance
- Needed to ensure safety

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Standards not supporting one of these criteria will be considered for cancellation

Description of PMT

- **The PMT will:**
  - be web based
  - provide an organized and technically based route for selecting standards needed to meet materiel interoperability, engineering, logistics readiness, safety, and other operational needs.
  - be organized around modified Work Breakdown Structure including additional categories:

Medical	Consumables
Aqsn/Engr Practices	Future Logistics Environment
Service Unique	

- **Program Offices will be able to:**
  - See which ISAs (and implementing documents) affect their systems (whether already fielded or in development)
  - Determine impact of use or non-use
  - Build a profile for a system/sub-system
  - Track changes

Selecting Standards

- DoD relies on more than 30,000 different documents for design and procurement:
  - performance specifications,
  - international standardization agreements (ISAs),
  - non-government standards,
  - commercial item descriptions, and
  - military specifications and standards
- Initial analysis of materiel-related ISAs and implementing documents
  - Over 800 active ISAs that affect materiel
- Next – Engineering, logistics, and interoperability standards

Linking US & NATO

- Most Current NATO Documents
- Most Current Implementing Documents
- Standardization-Tasking-Review & Analysis Process (STRAP).
  - provides interrelationship between working groups, STANAGS, and NATO Tasks

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Program Manager's Tool

Work Breakdown Structure

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Welcome to the Program Manager's Tool

Overview:

The Program Manager's Tool (PMT) is a key component of the Joint Materiel Standards Roadmap (JMSR). The JMSR provides a technical route for the selection of standards (both commercial and government) to reach destinations involving interoperability, logistics readiness, safety, and other operational needs. The PMT allows Program Managers the ability to identify standards using a modified Work Breakdown Structure (WBS) as described in MIL-HDBK-881. The PMT categories include Aircraft Systems, Electronic/Automated Software Systems, Missile Systems, Ordnance Systems, Ship Systems, Space Systems, Surface Vehicle Systems, Medical, Consumables, Acquisition/Engineering Practices, Future Logistics Enterprise (FLE), Army/Navy/Air Force/ Unique, Defense Agency/Joint Policy Wide, and DoD-Wide.

Work Breakdown Structure:

A Work Breakdown Structure (WBS) should be viewed simply as a framework to define a program. The WBS defines a defense materiel item into its component product parts, clarifying the relationships among those parts. It defines a program in terms of hierarchically related, product-oriented elements.

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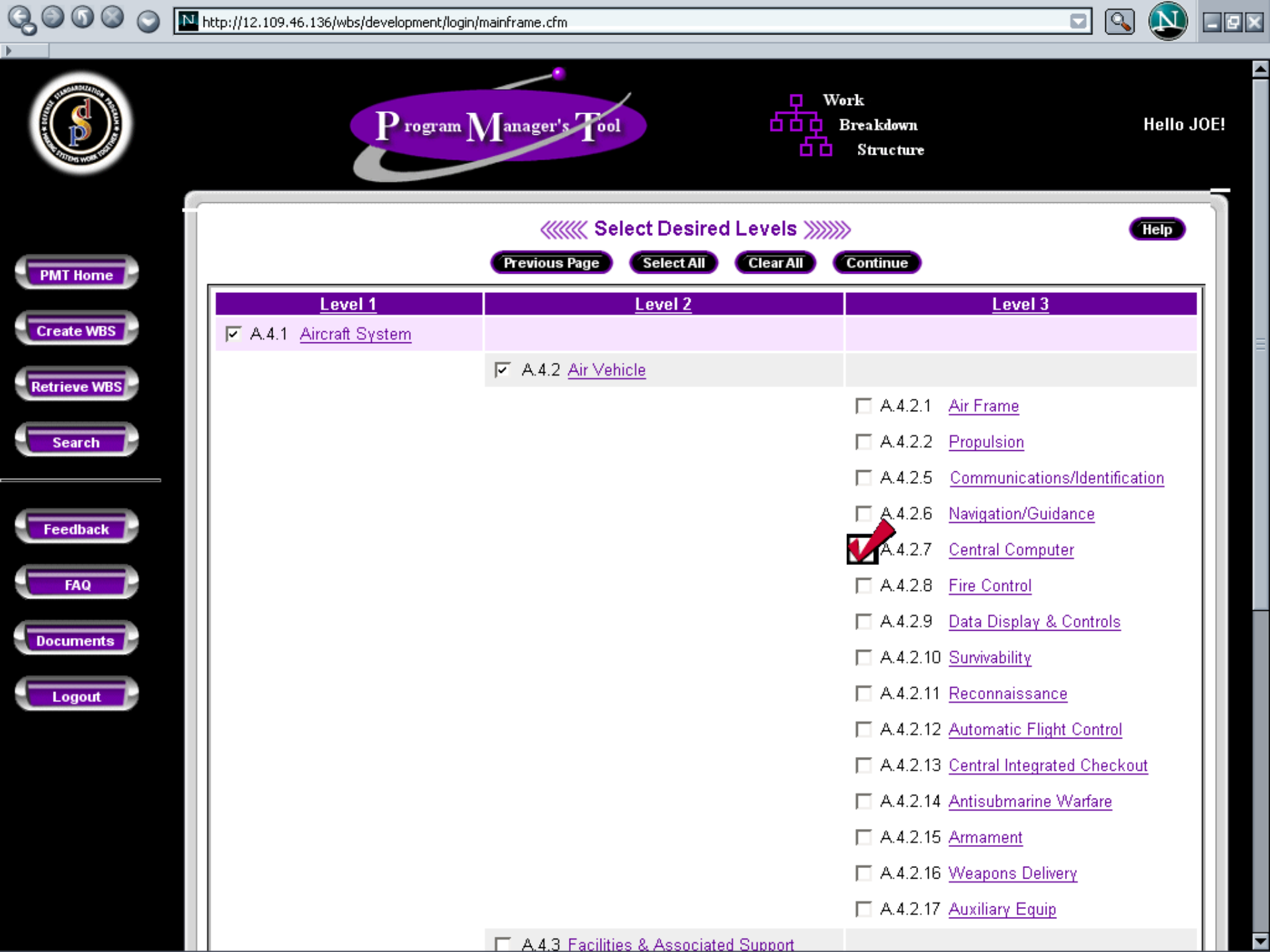
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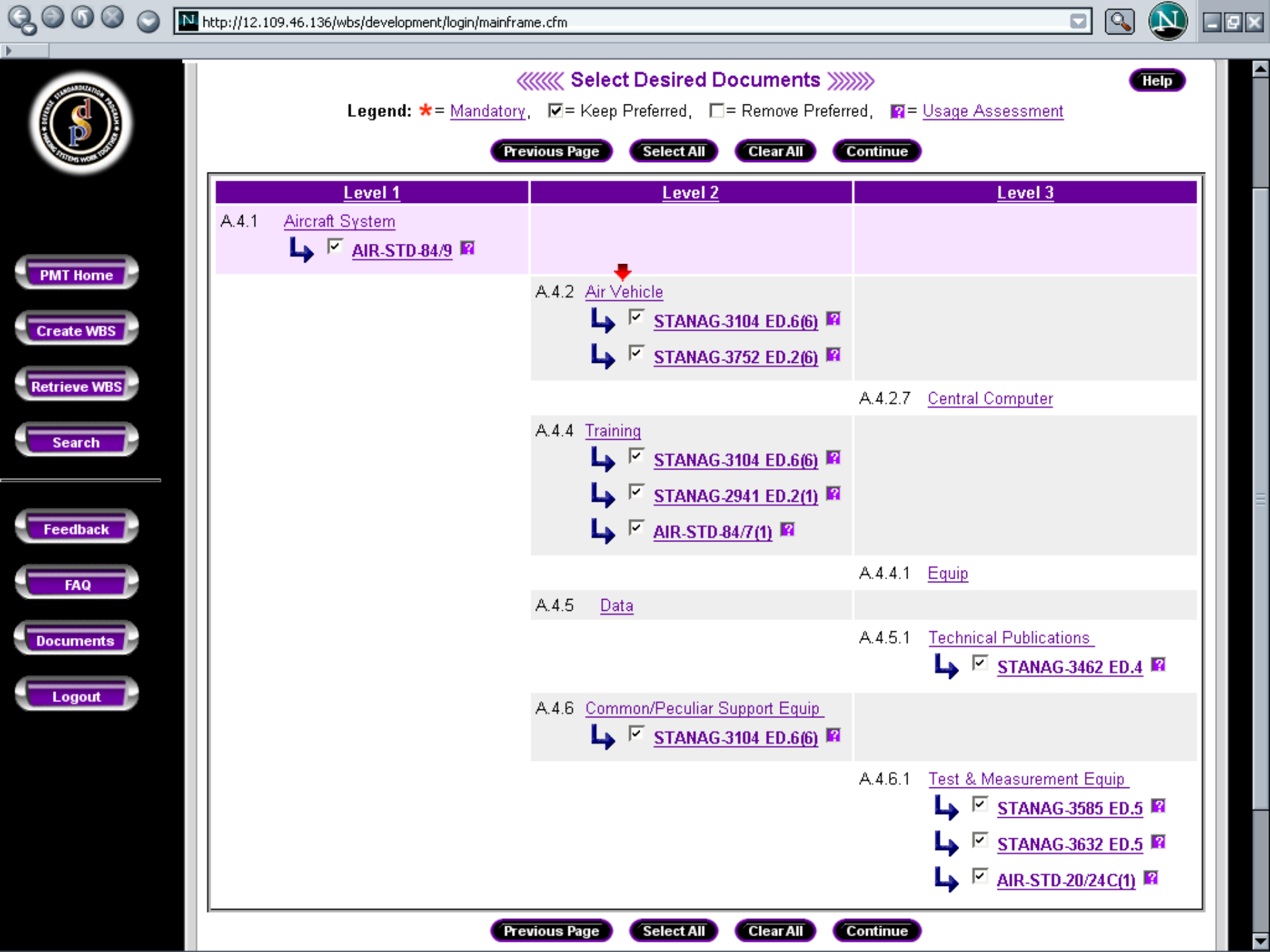
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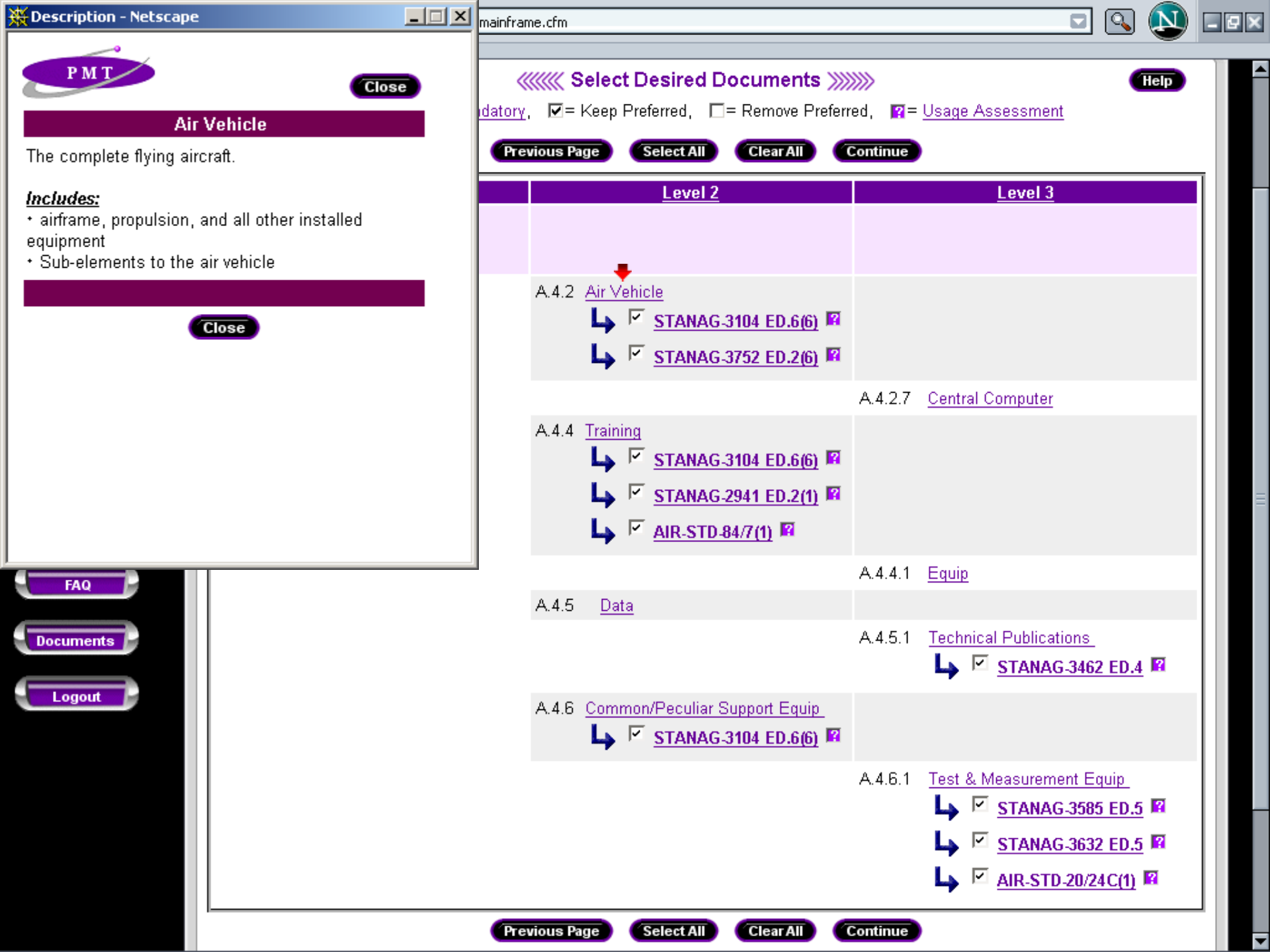
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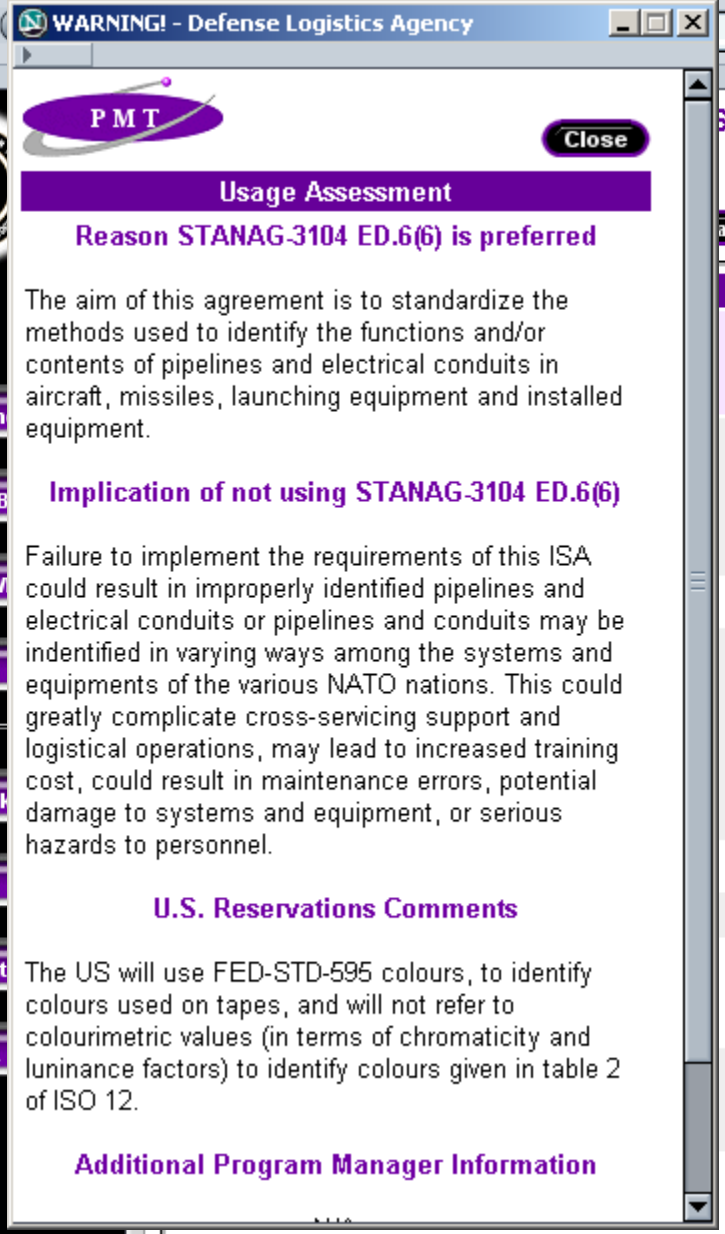
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Reason STANAG-3104 ED.6(6) is preferred
The aim of this agreement is to standardize the methods used to identify the functions and/or contents of pipelines and electrical conduits in aircraft, missiles, launching equipment and installed equipment.
Implication of not using STANAG-3104 ED.6(6)
Failure to implement the requirements of this ISA could result in improperly identified pipelines and electrical conduits or pipelines and conduits may be indentified in varying ways among the systems and equipments of the various NATO nations. This could greatly complicate cross-servicing support and logistical operations, may lead to increased training cost, could result in maintenance errors, potential damage to systems and equipment, or serious hazards to personnel.
U.S. Reservations Comments
The US will use FED-STD-595 colours, to identify colours used on tapes, and will not refer to colourimetric values (in terms of chromaticity and luninance factors) to identify colours given in table 2 of ISO 12.
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Examples

- **AIR-STD-20-21C(1), “Airborne Stores Ground Fit and Compatibility Criteria”**

  Exclusions: The requirement for aircraft electrical circuits which are a part of the arming, safing, and monitoring systems for nuclear bombs or missiles with nuclear warheads are excluded from this document. To assure electrical compatibility of nuclear weapons in those areas, coordination with appropriate nuclear design agencies must be accomplished.

- **AIR-STD-20/23B, “Safety Design Requirements for Airborne Dispenser Weapons”**

  Exclusions: This agreement does not apply to chaff and flare dispenser systems.

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Document Analysis

Document Profile - General

Document ID: STANAG-3462 ED.4 Click here to access document images.

Overview

Title: AVAILABILITY OF WEIGHT AND BALANCE REQUIREMENTS AND LOADING CRITERIA FOR TRANSPORT AIRCRAFT

Scope: The aim of this agreement is to standardize weight and balance requirements to permit the loading of transport aircraft of one nation to be carried out correctly by the personnel of another nation under supervision of the aircraft crew.

Status: Active **Doc Date:** 26-JUN-1969 **QPL/QML:** Not Applicable

FSC/Area: ISDF **Dist Stmt:** C **DD1865 Issued:** No

Doc Category: NATO Standardization Agreements

Responsibilities

Lead Standardization Activity: 06 Air Force International Standardization Office

Preparing Activity: 06 Air Force International Standardization Office

Coordination: Full

Army Custodian:

Navy Custodian:

Air Custodian:

DLA Custodian:

Other Custodian:

International Standardization Agreement - Details

Date Ratified by USA: 26-JUN-1969

Treaty Org: North Atlantic Treaty Organization

Sponsor:

Date Promulgated by USA: PENDING

US Reservations: No

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Other Custodian:

International Standardization Agreement - Details

Date Ratified by USA: 26-JUN-1969
Treaty Org: North Atlantic Treaty Organization
Sponsor:
Date Promulgated by USA: PENDING
US Reservations: No
Type of ISA: Materiel

U.S. National Point of Contact Information

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Arlington , VA 22209
E-mail: asccmcus@pentagon.af.mil

U.S. Implementing Documents

PDF	Document ID	Status
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Projects

SD-4 Project: N/A

Comparable/Related ISA Documents

Related Document	Title
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Other Custodian:

International Standardization Agreement - Details

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ASSIST-Online Revision History - Defense Logistics Agency

Revision History

Document ID: STANAG-3462 ED.4

Title: AVAILABILITY OF WEIGHT AND BALANCE REQUIREMENTS AND LOADING CRITERIA FOR TRANSPORT AIRCRAFT

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Document Date: 26-Jun-1969

FSC/Area: ISDF - INTERNATIONAL STANDARDIZATION DOCUMENTS - AIR FORCE

Prep Acty: 06 - Air Force International Standardization Office

Document Status: Active

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Media	Document Part Description	Part Status	Pages	Size
PDF	Revision 4	Current	8	508.2 KB
	Revision 3 Amendment 8	Historical	26	1495.5 KB

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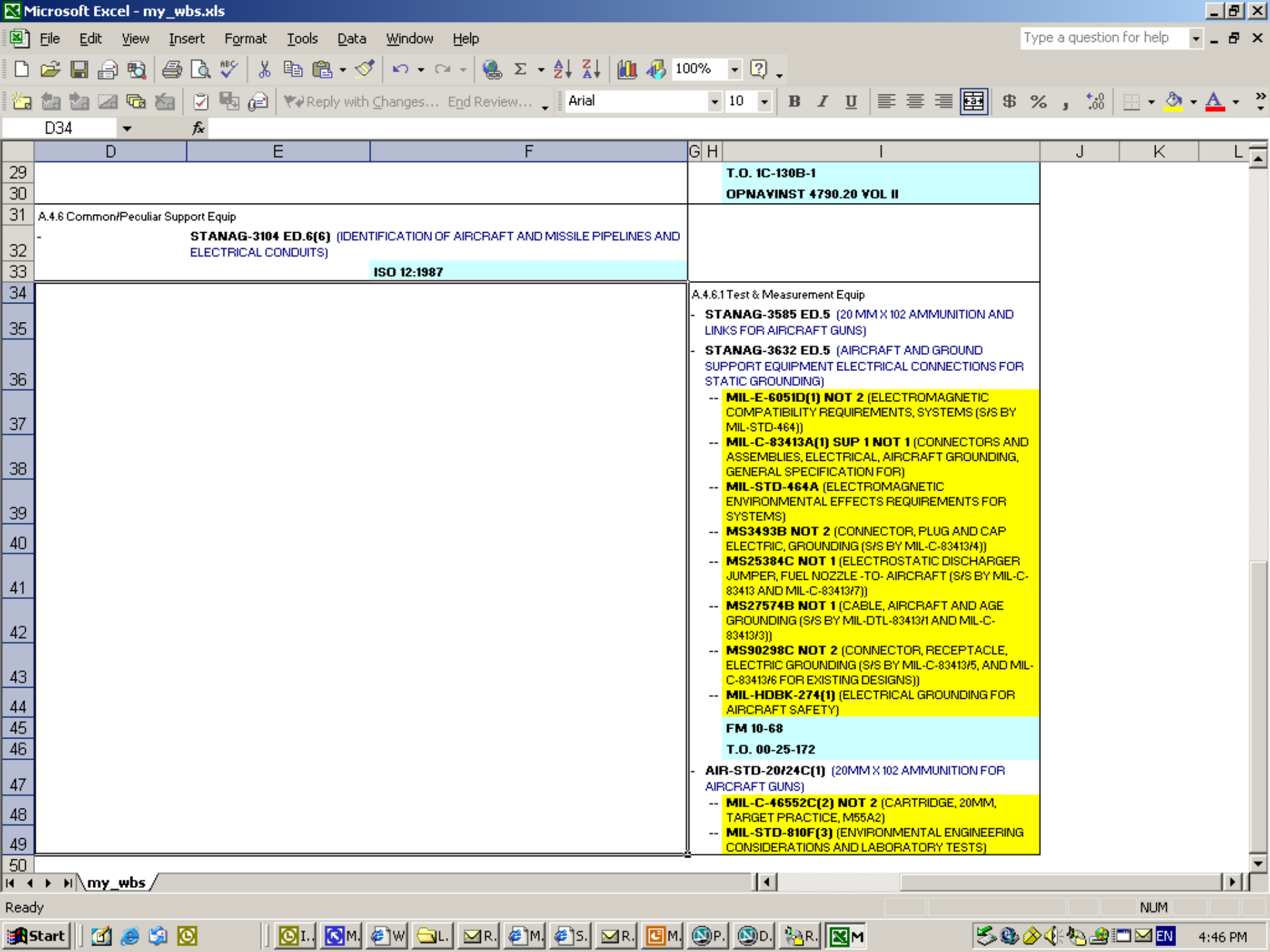
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ISO 12:1987
A.4.6.1 Test & Measurement Equip
- STANAG-3585 ED.5 (20 MM X 102 AMMUNITION AND LINKS FOR AIRCRAFT GUNS)
- STANAG-3632 ED.5 (AIRCRAFT AND GROUND SUPPORT EQUIPMENT ELECTRICAL CONNECTIONS FOR STATIC GROUNDING)
-- MIL-E-6051D(1) NOT 2 (ELECTROMAGNETIC COMPATIBILITY REQUIREMENTS, SYSTEMS (S/S BY MIL-STD-464))
-- MIL-C-83413A(1) SUP 1 NOT 1 (CONNECTORS AND ASSEMBLIES, ELECTRICAL, AIRCRAFT GROUNDING, GENERAL SPECIFICATION FOR)
-- MIL-STD-464A (ELECTROMAGNETIC ENVIRONMENTAL EFFECTS REQUIREMENTS FOR SYSTEMS)
-- MS3493B NOT 2 (CONNECTOR, PLUG AND CAP ELECTRIC, GROUNDING (S/S BY MIL-C-83413/4))
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-- MS90298C NOT 2 (CONNECTOR, RECEPTACLE, ELECTRIC GROUNDING (S/S BY MIL-C-83413/5, AND MIL-C-83413/6 FOR EXISTING DESIGNS))
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PMT Information Briefing
Presented to PSMC
October 29, 2003

Donna McMurry
Program Analyst
Defense Standardization Program Office